DEPARTMENT OF QUALITY ASSURANCE TECHNIQUES

Scope and Area of Research

Bharati Vidyapeeth Deemed University Poona College of Pharmacy offers Master of Pharmacy in Quality Assurance Techniques (QAT). Quality assurance is a systematic and planned activities conducted in a quality system to meet desired quality standards for a product or service. Now days, use of advanced new drug designing tools, innovative production process as well as sophisticated analytical instruments is more common in pharmaceutical industry. Moreover, new rigorous legislation and regulations for quality requirements of pharmaceutical product made stringent control of pharmaceutical manufacturer over quality of the product.

Therefore, the QAT course has been designed with main objective to familiarize students with ICH guidelines; SOPs; GMPs; physical and chemical examination of the containers as well as labels, cartons and other printed materials; auditing; technical writing; calibration; validation; documentation etc. It is tailor made to cater the needs of the pharmaceutical research in the growing pharma industries worldwide. This course concentrates at innovative, extensive and in-depth knowledge for implementation of Quality Assurance provided by full-time research faculty with both academic and industry experience. It gives theoretical knowledge together with hands-on experience in all areas that control the quality of product. The department is well-equipped with sophisticated analytical instruments to carry out the research in quality assurance to meet the ever-increasing demands of the pharmaceutical market.

After completing the M. Pharm. in QAT, the students will be able:

- To understand the requirements of quality assurance, compliance, and GMPs.
- To understand the types and procedure of the documentation and its importance in quality work.
- To gain knowledge and skills required in the regulated pharmaceutical industry.
- To understand different topics including the latest regulations, analytical monographs, working of analytical instruments and troubleshooting techniques in the pharmaceutical research.
- To attain knowledge regarding quality system, GLP and Good Documentation Practices.
- To understand management of validation protocol, batch documents, investigation report and facilities audit.

Major Research Areas:

- Analytical method development
- Validation of different drugs
- Cleaning validation
- Bioanalytical method development
- Validation of equipments
- Stability studies of APIs and formulation